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High-T **second-order** gradiometer for **magnetocardiography** in an unshielded environment - group of 2 »

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KA Kouznetsov, J Borgmann, J Clarke - Applied Physics Letters, 1999 - link.aip.org  
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Measurement techniques for **magnetocardiography** using a **second order** gradiometer.

SC Ho, FP Ho, MM Chao, JH Wilkin, JW Miller - Biomed Sci Instrum, 1986 - ncbi.nlm.nih.gov  
Measurement techniques for **magnetocardiography** using a **second order** gradiometer.  
Ho SC, Ho FP, Chao MM, Wilkin JH, Miller JW. MeSH ...  
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The development of a high-Tc **magnetocardiography** system for unshielded environment

B David, O Dossel, V Doormann, R Eckart, W Hoppe, ... - Applied Superconductivity, IEEE Transactions on, 1997 - ieeexplore.ieee.org  
... Typical signal amplitudes in **magnetocardiography** (MCG) are in the range of ... **second order** gradiometers [ 131 show that the environmental noise and signal fields ...  
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A **second-order** planar gradiometer composed of concentric superconductive loops - group of 2 »

S Kuriki, Y Isobe, Y Mizutani - Journal of Applied Physics, 1987 - link.aip.org  
>/> A **second-order** planar gradiometer composed of concentric superconductive loops. ... Biomagnetism (including **magnetocardiography**). ...  
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**Magnetocardiography** and exercise testing: data acquisition and data processing

K Brockmeier, S Comani, SN Erne, C De Gratta, S Di ... - Computers in Cardiology 1991. Proceedings., 1991 - ieeexplore.ieee.org  
... 1 Introduction **Magnetocardiography** is a relatively new approach for ... environment with the following acquisition parameters: **second order** gradiometer (baseline 7 ...  
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Compensation techniques for high-temperature superconducting quantum interference device ... - group of 2 »

J Borgmann, P David, HJ Krause, R Otto, Al ... - Review of Scientific Instruments, 1997 - link.aip.org  
... For testing, we used first- and **second-order** axial electronic gradiometer setups with rf SQUID magnetometers operating at 77 K and base lines between 7 and 8 cm ...  
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Localization of biological sources with arrays of superconducting gradiometers - group of 3 »

P Carelli, R Leoni - Journal of Applied Physics, 1986 - link.aip.org  
... The comparisons were made between this kind of array and one made of traditional **second-order** gradiometers. ... Biomagnetism (including **magnetocardiography**). ...  
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The PTB 83-SQUID system for biomagnetic applications in a clinic - group of 3 »

D Drung - Applied Superconductivity, IEEE Transactions on, 1995 - ieeexplore.ieee.org  
... in order to realize electronic first- or **second-order** gradiometer configurations ... at our institution, initially focussed on **magnetocardiography** and subsequently ...  
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A realistic torso model for **magnetocardiography** - group of 2 »

A van Oosterom, GJ Huiskamp - Int. J. Card. Imag, 1991 - Springer

... A realistic torso model for **magnetocardiography** ... In this study the data considered represent the output of a **second order** gradiometer positioned orthogonally ...

[Cited by 3](#) - [Web Search](#)

### Baseline distance optimization for SQUID gradiometers - group of 4 »

A Garachtchenko, A Matlashov, RH Kraus Jr, R ... - Applied Superconductivity, IEEE Transactions on, 1999 - [ieeexplore.ieee.org](#)

... function of primary source depth for first and **second order** gradiometers, respectively ...

For example, in the study of fetal **magnetocardiography** (fMCG), one would ...

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P Carelli, R Leoni - Journal of Applied Physics, 1986 - link.aip.org  
... array and one made of traditional **second-order** gradiometers ... comparisons were made solving the **inverse** problem with ... Biomagnetism (including **magnetocardiography**). ...  
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[PS] Magnetic localization of reentrant activation in isolated rabbit atrium

E Costa Monteiro, E Andrade Lima, C Hall Barbosa, ... - Recent Advances in Biomagnetism, 1999 - ams.sunysb.edu  
... coupled to a symmetric **second order** gradiometer, with ... An **inverse** solution method has been previously ... of the volume conductor in **magnetocardiography**, Il Nuovo ...  
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A realistic torso model for magnetocardiography - group of 2 »

A van Oosterom, GJ Huiskamp - Int. J. Card. Imag, 1991 - Springer  
... A realistic torso model for **magnetocardiography** ... A simple **inverse** procedure, based on correlation techniques, is ... the output of a **second order** gradiometer posi ...  
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The effect of measurement conditions on MCG inverse solutions - group of 2 »

GA Tan, F Brauer, G Stroink, CJ Purcell - Biomedical Engineering, IEEE Transactions on, 1992 - ieeexplore.ieee.org  
... field were calculated as if measured by **second order** gradiometers, Gaussian noise was added, and Monte Carlo tests performed for **inverse** solutions using a ...  
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Detection of Reentry Currents in Atrial Flutter by Magnetocardiography - group of 2 »

PC Ribeiro, AC Bruno, PLS e Silva, CRH Barbosa, EP ... - IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, 1992 - ieeexplore.ieee.org  
... Abstract—We discuss the use of **magnetocardiography** to de ... is the precision with which the **inverse** problem can ... SQUID was coupled to a **second order** gradi- ometer ...  
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Extracorporeal magnetic fields generated by internal bioelectric sources

D Geselowitz, W Miller III - Magnetism, IEEE Transactions on, 1973 - ieeexplore.ieee.org  
... nonempirically up to the **second order** of overlap ... Subsequent development of **magnetocardiography** is discussed, including ... are used to solve the **inverse** problem, ...  
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Oxygen binding on hemoglobin and the electronic state of heme-iron

A Tasaki, J Otsuka - Magnetism, IEEE Transactions on, 1973 - ieeexplore.ieee.org  
... nonempirically up to the **second order** of overlap ... Subsequent development of **magnetocardiography** is discussed, including ... are used to solve the **inverse** problem, ...  
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MR image texture analysis applied to the diagnosis and tracking of Alzheimer's disease - group of 2 »

PA Freeborough, NC Fox - Medical Imaging, IEEE Transactions on, 1998 - ieeexplore.ieee.org  
... Prior to **inverse** Fourier transformation the scanner automatically zero padded ... SGLDM involves the estimation of the discrete **second-order** probability function C ...  
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Superconducting electronics coming to market - group of 2 »

AI Braginski - Applied Superconductivity, IEEE Transactions on, 1999 - ieeexplore.ieee.org  
... necessary constraints in 3D **inverse** solutions for ... In contrast to MEG, **magnetocardiography** has not ... **second-order** magnetic-shielding-free axial gradiometer ...  
Cited by 19 - [Web Search](#) - [BL Direct](#)

Neuromagnetic functional Localization: Principles, state of the art, and perspectives - group of 2 »

GLS Romani, PS Rossini - Brain Topography, 1988 - Springer

... responds to a higher degree of spatial discrimination, (eg, a **second-order** gradiometer configuration ... It is well known that the **inverse** problem has no uni- que ...

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**Magnetocardiography in the diagnosis of fetal arrhythmia - group of 2 »**

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P van Leeuwen, B Halier, W Bader, J Geissler, E ... - BJOG: An International Journal of Obstetrics & Gynaecology, 1999 - Blackwell Synergy

... **Magnetocardiography** in the diagnosis of fetal arrhythmia. ... Objective To examine the possible use of **magnetocardiography** in the diagnosis of fetal arrhythmias. ...

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**Prenatal diagnosis of long QT syndrome using fetal magnetocardiography - group of 3 »**

H Hamada, H Horigome, M Asaka, S Shigemitsu, T ... - Prenatal Diagnosis, 1999 - doi.wiley.com

... **Magnetocardiography** ... We describe the detection of congenital long QT syndrome in a fetus at 37 weeks' gestation using **magnetocardiography** (MCG). ...

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**Antenatal fetal magnetocardiography: a new method for fetal surveillance?**

A Quinn, A Weir, U Shahani, R Bain, P Maas, G ... - Br J Obstet Gynaecol, 1994 - ncbi.nlm.nih.gov

Antenatal fetal **magnetocardiography**: a new method for fetal surveillance?

Quinn A, Weir A, Shahani U, Bain R, Maas P, Donaldson ...

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**Magnetocardiography and 32-lead potential mapping: repolarization in normal subjects during ...**

K Brockmeier, L Schmitz, JD Bobadilla Chavez, M ... - J Cardiovasc Electrophysiol, 1997 - ncbi.nlm.nih.gov

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**Solving the inverse problem in magnetocardiography**

JT Nenonen - Engineering in Medicine and Biology Magazine, IEEE, 1994 - ieeexplore.ieee.org

Page 1. Jukka T. Nenonen Biomedical Engineering Laboratory Helsinki University

of Technology Solving the Inverse Problem in **Magnetocardiography** ...

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**[CITATION] Magnetocardiography**

P Siltanen - Comprehensive Electrocardiology, 1989

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**... localization of an amagnetic stimulation catheter by multichannel magnetocardiography.**

R Fenici, J Nenonen, K Pesola, P Korhonen, J ... - Pacing Clin Electrophysiol, 1999 - ncbi.nlm.nih.gov

Nonfluoroscopic localization of an amagnetic stimulation catheter by multichannel **magnetocardiography**. Fenici R, Nenonen J, Pesola ...

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**... heart rate patterns in isolated congenital complete heart block detected by magnetocardiography.**

RT Wakai, AC Leuthold, CB Martin - Am J Obstet Gynecol, 1998 - ncbi.nlm.nih.gov

Click here to read Atrial and ventricular fetal heart rate patterns in isolated congenital complete heart block detected by **magnetocardiography**. ...

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**Prenatal recording of fetal heart action with magnetocardiography**

T Menendez, S Achenbach, W Moshage, M Flug, E ... - Z Kardiol, 1998 - ncbi.nlm.nih.gov

Click here to read [Prenatal recording of fetal heart action with **magnetocardiography**]

[Article in German] Menendez T, Achenbach S, Moshage W, Flug M, Beinder E ...

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**... invasive localization accuracy of cardiac arrhythmias attainable by multichannel magnetocardiography**

...

W Moshage, S Achenbach, K Gohl, K Bachmann - Int J Card Imaging, 1996 - ncbi.nlm.nih.gov

Evaluation of the non-invasive localization accuracy of cardiac arrhythmias

attainable by multichannel **magnetocardiography** (MCG). ...

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Measurement techniques for magnetocardiography using a second ...

Measurement techniques for magnetocardiography using a **second order gradiometer**. Ho SC, Ho FP, Chao MM, Wilkin JH, Miller JW.MeSH Terms ...  
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High T superconducting second-order gradiometer—[Applied Physics ...

A planar, **second-order gradiometer** was fabricated from single-layer films. The **gradiometer** consists of a symmetric flux transformer with an overall length ...

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2. ☐ **Automatic activation in the human primary motor cortex synchronized with movement preparation • ARTICLE**  
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6. ☐ **Noninvasive visualization of multiple simultaneously activated regions on torso magnetocardiographic maps during ventricular depolarization • ARTICLE**  
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